AMENDMENTS TO THE CLAIMS:

Please replace the prior listing of claims in the application with the following listing of claims:

1. (Currently amended) A method for growing and processing a legume fodder crop and a sugar cane crop, including the steps of:

(a) providing a cane sugar mill;

(b) providing a feed mill, said feed mill being located at or adjacent to said cane sugar mill;

(c) growing said legume fodder crop as a soil enhancing fallow crop for said sugar cane crop to be processed at said cane sugar mill;

(d) delivering freshly harvested legume fodder crop to said feed mill located at or adjacent to said cane sugar mill;

(e) processing the legume fodder crop to seek optimised cell breakage or fiberisation in the resultant shredded material; and

(f) drying the shredded material using heat supplied by the cane sugar mill or from by-products of the cane sugar mill to produce a dried animal feed material, ~~suitable~~ said animal feed material being dry enough for long term storage.

2. (Currently amended) [[A]] The method as claimed in claim 1, including the further step:

(g) mixing the dried material with ~~suitable~~ liquid binder(s) to produce a feed meal material of ~~suitable~~ desired moisture content as required for use.

3. (Currently amended) [[A]] The method as claimed in claim 1, wherein:

in step (d), the freshly harvested legume fodder crop is delivered to the feed mill in bulk using a transport system/infrastructure used to transport said sugar cane crop in bulk ~~of~~ to the cane sugar mill.

4. (Currently amended) [[A]] The method as claimed in claim 1, wherein:

in step (e), the harvested crop is shredded using heavy duty shredder/hammermill machines.

5. (Currently amended) [[A]] The method as claimed in claim 1, wherein:

in step (e), juice from said legume fodder crop is extracted, concentrated, and stored in liquid concentrate tank(s).

6. (Currently amended) [[A]] The method as claimed in claim 1, wherein:

in step (f), the shredded matter is dried using hot flue gas from the sugar mill boiler, or from a separate furnace fired with sugar cane bagasse either fresh from the cane sugar mill or from a stockpile.

7. (Currently amended) [[A]] The method as claimed in claim 6, wherein:

the dried shredded material is separated into coarse (stem) and fine (leaf) dry fibre fractions, which are optionally selectively recombined during later processing.

8. (Currently amended) [[A]] The method as claimed in claim 2, wherein:

in step (g), the liquid binder(s) include molasses, juice concentrate ~~and~~ or other ~~suitable~~ liquids to achieve the desired moisture content.

9. (Currently amended) [[A]] The method as claimed in claim 2, wherein:

during, or after, step (g) other ingredients and additives, including vitamins, minerals, digestion improvers, antibiotics and other pharmaceuticals are added to increase the value of the feed meal material.

10. (Currently amended) [[A]] The method as claimed in claim 2, wherein:

after step (g), the feed meal material undergoes further processing including pelletising, crumbling, granulation, agglomeration, pressure compaction, cubing, extrusion, moulding, tableting, briquetting, baling or bagging to suit the market requirements.

11. (Currently amended) A method for growing and processing a legume fodder crop and a sugar cane crop, including the steps of:

(a) providing a cane sugar mill;

(b) providing a feed mill, said feed mill being located at or adjacent to said cane sugar mill;

(c) growing said legume fodder crop as a soil enhancing fallow crop for said sugar cane crop to be processed at said cane sugar mill;

(d) delivering freshly harvested legume fodder crop to said feed mill located at or adjacent to said cane sugar mill;

(e) processing the legume fodder crop to produce cut or shredded material; and

(f) drying the cut or shredded material using heat supplied by the cane sugar mill or from by-products of the cane sugar mill to produce a dried animal feed material, ~~suitable~~ being dry enough for long term storage.

12. (Currently amended) [[A]] The method as claimed in claim 11, including the further step:

(g) baling the dried cut and/or shredded material (or hay).

13. (Currently amended) [[A]] The method as claimed in claim 11, wherein:

in step (e), the crop is processed using rotary knives to cut and/or shred the fibrous material.

14. (Currently amended) [[A]] The method as claimed in claim 12, wherein:

after step (g), the baled material (or hay) is outloaded or containerised for transport.

15. (Currently amended) [[A]] The method as claimed in claim 12, wherein:

at step (g), molasses is mixed with the dried material (or hay) to increase the nutritional value thereof.

16. (Previously presented) A method for growing and processing a legume fodder crop and a sugar cane crop to produce an animal feed product, including the steps of:

(i) growing said legume fodder crop as a soil-enhancing fallow crop for said sugar cane crop;

(ii) harvesting the legume fodder crop;

(iii) providing a cane sugar mill;

(iv) providing a feed mill, said feed mill being located at or adjacent to said sugar mill;

(v) delivering freshly harvested legume fodder crop to said feed mill located at or adjacent to said cane sugar mill;

(vi) processing the legume fodder crop to seek optimised cell breakage or fiberisation in the resultant shredded material, ; and

(vii) drying the shredded material using heat supplied by the cane sugar mill or from by-products of the cane sugar mill to produce an animal feed material.

17. (Currently amended) [[A]] The method as claimed in claim 16, including the further step:

(viii) mixing the dried material with suitable liquid binder(s) to produce a feed meal material of ~~suitable~~ desired moisture content if required for use.

18. (Previously presented) A method for growing and processing a legume fodder crop and a sugar cane crop to produce an animal feed product, including the steps of:

(i) growing said legume fodder crop as a soil-enhancing fallow crop for said sugar cane crop;

(ii) harvesting the legume fodder crop;

(iii) providing a cane sugar mill;

(iv) providing a feed mill, said feed mill being located at or adjacent to said cane sugar mill;

(v) delivering freshly harvested legume fodder crop to said feed mill located at or adjacent said cane sugar mill;

(vi) processing the legume fodder crop to produce cut or shredded material; and

(vii) drying the cut or shredded material using heat supplied by the cane sugar mill or from by-products of the cane sugar mill to produce an animal feed material.

19. (Currently amended) [[A]] The method as claimed in claim 18, including the further step:

(viii) baling the dried cut and/or shredded material (or hay).

20. (Currently amended) [[A]] The method for producing an animal feed product including the steps of:

(i) growing a legume fodder crop (as hereinbefore defined) as a soil-enhancing fallow crop for sugar cane;

(ii) harvesting the crop; and

(iii) processing the crop by the method claimed in Claim 1.

21. (Currently amended) [[A]] The method for producing an animal feed product including the steps of:

(i) growing a legume fodder crop ~~(as hereinbefore defined)~~ as a soil-enhancing fallow crop for sugar cane;

(ii) harvesting the crop; and

(iii) processing the crop by the method claimed in Claim 11.